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1 [Multilanguage programming with ada in the .Net environment](#)

Jeffrey W. Humphries, Martin C. Carlisle, Terry A. Wilson

 December 2003 **ACM SIGAda Ada Letters , Proceedings of the 2003 annual ACM SIGAda international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies**, Volume XXIV Issue 1

 Full text available: [pdf\(207.95 KB\)](#)

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This paper describes our experiences in using Ada with other programming languages in the .NET environment. This paper explains our approach and presents lessons learned during our development of a real-world software project using .NET. We compare and contrast the languages used, justify our language choices, and present details of our efforts.

Keywords: A#, Ada 95, microsoft .NET environment, multilanguage programming

2 [Architectural support for multilanguage parallel programming on heterogeneous systems](#)

Roberto Bisiani, Alessandro Forin

 October 1987 **Proceedings of the second international conference on Architectural support for programming languages and operating systems**, Volume 15 , 22 , 21 Issue 5 , 10 , 4

 Full text available: [pdf\(1.22 MB\)](#)

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We have designed and implemented a software facility, called Agora, that supports the development of parallel applications written in multiple languages. At the core of Agora there is a mechanism that allows concurrent computations to share data structures independently of the computer architecture they are executed on. Concurrent computations exchange control information by using a pattern-directed technique. This paper describes the Agora shared memory and its software implementation on both t ...

3 [Multilanguage programming on the JVM: the Ada 95 benefits](#)

Franco Gasperoni, Gary Dismukes

 December 2000 **ACM SIGAda Ada Letters**, Volume XX Issue 4

 Full text available: [pdf\(1.48 MB\)](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Engineering VAX Ada for a multi-language programming environment](#)

Charles Z Mitchell

 January 1987 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 22 Issue 1

Full text available: pdf(1.20 MB)

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DIGITAL's VAX™ Adar is a validated, production-quality implementation of the full Ada language that is well-integrated into the VMS™ operating system environment on VAX systems. The programming support environment consists of an Ada compiler, an Ada program library manager, and a multi-language programming environment including a variety of tools which all work together. The Ada compiler has many features wh ...

2 [Draft report on requirements for a common prototyping system](#)

R. P. Gabriel

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Full text available: pdf(4.76 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)3 [A tool for Internet-oriented knowledge based systems](#)

Robert Inder

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(561.56 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** CLIPS, Perl, knowledge-based system tools, rule-based programming4 [The SAGA project: A system for software development](#)

Roy H. Campbell, Peter A. Kirsliis

 April 1984 **Proceedings of the first ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 19 , 9 Issue 5 , 3

Full text available: pdf(689.97 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

10/782,715

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		'compiler'.ab. and 'types defined in different languages' and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2004/11/01 12:29
S1	2	('type cache' and 'compiler'.ab.) and 'languages' and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/01 12:43
S2	0	((('type' near2 defin\$5) same 'different languages') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/01 13:37
S3	1	"20040168160"	US-PGPUB; USPAT	OR	OFF	2004/10/20 14:52
S4	0	((multi near2 programming) or (multi near2 languag\$2)) and ('multi-programming') and ('multiprogramming') and ('multi-language') and (compil\$5 same source) and ('integrated development environment') and cache and ('nested language') and ('source code editor') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2005/05/10 11:55
S5	0	((multi near2 programming) or (multi near2 languag\$2)) and ('multi-programming') and ('multiprogramming') and ('multi-language') and (compil\$5 same source) and ('integrated development environment') and cache and ('nested language') and ('source code editor') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 14:58
S6	0	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and ('nested language') and ('source code editor') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 14:59

S7	206	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 14:59
S8	115	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and 'java' and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:00
S9	9	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:09
S10	12	(cache near3 stor\$3) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:07
S11	1	('source code editor') and ('multi') and 'java' and compiler.ab. and ('integrated development environment') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:18
S12	0	(nested near2 languag\$2) and ('multi') and 'java' and compiler.ab. and ('compiler framwork') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:20
S13	0	(nested near2 languag\$2) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:20
S14	1	(nested near3 languag\$2) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:21
S15	3	(nested near2 languag\$2) and ('multi') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:43

S16	0	(inner near2 languag\$2) and (outer near2 languag\$2) and ('multi') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:23
S17	0	(inner near2 languag\$2) and ('multi') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:23
S18	16	(nested near2 languag\$2) and ('multi') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:43
S19	5340	'lexical' and 'syntactic' and 'semantic' and 'code genera\$4'and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:28
S20	7	'lexical' and 'syntactic' and 'semantic' and 'code genera\$4'and compiler.ab. and ('multi' near3 languag\$2) and java and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:29
S21	16	'lexical' and 'syntactic' and 'semantic' and 'code genera\$4'and compiler.ab. and ('multi' near3 languag\$2) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:34
S22	2	('lexical') and ('syntactic') and ('semantic') and ('code generation') and compiler.ab. and ('multi' near3 languag\$2) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:37
S23	0	('compiler framework') and compiler.ab. and ('multi' near3 languag\$2) and java and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:37

S24	2	('compiler framework') and compiler.ab. and ('multi' near3 languag\$2) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/20 15:37
S25	3	"3461434".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:41
S26	4	"3546677".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:42
S27	2	"3548384".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:42
S28	6	('nested languages') and ('multi') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 08:44
S29	0	(multi-languages.ti. or multi-programming-language.ti.) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2004/10/21 09:19
S30	0	(multi-languages.ti. or multi-programming-languages.ti.) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2004/10/21 09:20
S31	1	(multi-languages.ab. or multi-programming-languages.ab.) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2004/10/21 09:20
S32	12	(configu\$6 same fil\$2) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:31
S33	0	(configu\$6 same fil\$2) and dependan\$4 and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:32

S34	0	(configu\$6 same fil\$2) and dependancies and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:32
S35	0	(configu\$6 same fil\$2) and (dependan\$4 same file) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:32
S36	0	(configu\$6 same fil\$2) and (dependan\$4 same data) and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:33
S37	0	(configu\$6 same fil\$2) and 'dependancies' and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 10:33
S38	0	(configu\$6 same fil\$2) and 'dependancy' and ('multi') and 'java' and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 14:40
S39	0	(compile same 'specified (portion or part)') and ('multi') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 14:41
S40	0	(compile same (specified near2 (portion or part))) and ('multi') and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 14:42
S41	0	(compile same (specified near2 (portion or part))) and compiler.ab. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 14:42
S42	5	(compile same (specified near2 (portion or part))) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/21 14:42

S43	0	((('intermix' near2 languages) and 'type cache') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 11:35
S44	0	((('intermixed' near2 languages) and 'type cache') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 11:35
S45	990	((('intermixed' near2 languages) or 'type cache' or ('mixed' near2 'languages')) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 11:39
S46	989	('type cache' or ('mixed' near2 'languages')) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 11:40
S47	931	('type cache' or ('mixed' near2 'languages') and 'compiler'.ab.) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 12:42
S48	2	('type cache' or ('mixed' near2 'languages') and 'compiler'.ab.) and 717/140.CCLS. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 11:45
S49	6	('type cache' or ('mixed' near2 'languages') and 'compiler'.ab.) and 'different languages' and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 13:35
S50	0	'compiler'.ab. and 'types defined in different languages' and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/01 12:29
S51	0	'compiler'.ab. and ((typ\$2 near2 defined) near3 'different languages') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2004/11/01 12:30

S52	0	'compiler'.ab. and ((typ\$2 near2 defined) same 'different languages') and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2004/11/01 12:31
S53	210	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:10
S54	2	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and 717/140.ccls. and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 11:57
S55	78	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and cache and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 11:58
S56	69	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and cache and compiler and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:02
S57	58	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and cache and compiler and Java and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:06
S58	7	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and cache and compiler and Java and (language near3 (dependent or independent)) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226")	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:03

S59	100	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and Java and (dependent or independent) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:10
S60	100	((multi near2 programming) or (multi near2 languag\$2)) and (compil\$5 same source) and Java and (dependent or independent) and (@ad<"20030226" or @prad<"20030226" or @rlad<"20030226"))	US-PGPUB; USPAT	OR	OFF	2005/05/10 12:10